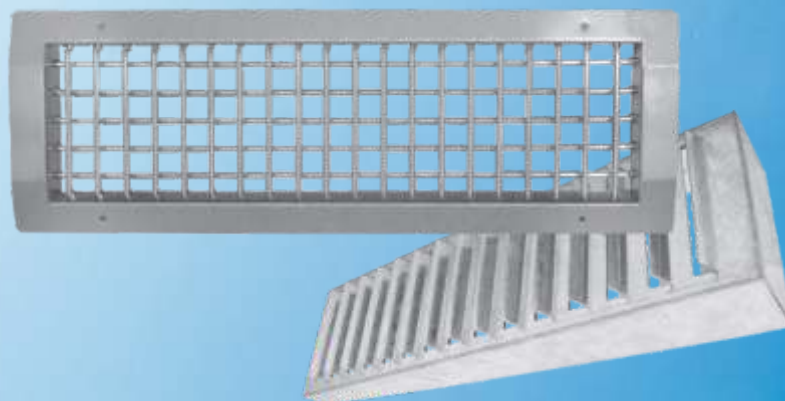


Transfer air grilles **TAG**



Round duct grilles **RSGR**



Transfer air grilles

TAG

Applications:

The transfer air grilles provide free circulation of air between two rooms. They may be installed in doors or walls.

Description:

They are used for transfer of compensation air required for pressure equalization between two rooms or between one room and outdoors. Transfer grilles are provided with fixed blades. The two grilles are back-to-back ("mirrored") mounted, with blades directed downwards, to prevent formation of disturbing air currents or infiltration of light from one room to another. When installed in openings with a depth in excess of 50 - 60 mm, they may be ordered with an interconnection sleeve for the two grilles.

Material:

Special profiles, made of extruded aluminum, in RITECH design.

Finish:

Electrostatically painted surface, dried in polymerization oven, providing increased lifetime of the paint layer and its pigment. Standard color: WHITE - RAL code 9016. On request, products may be delivered in any RAL color.

Fastening:

Pre-punched Ø 5 mm holes, on long sides, for recessed-head anchor screw, painted in grille's color. The number and position of holes may be adjusted, if requested in order.

Packaging:

Individual packaging, in polyethylene foil and delivered in cardboard boxes. Corners are protected with cardboard guards.

Technical specifications text-box, for price quotation requests:

Transfer air grille, made of extruded aluminum and painted with electrostatic coating;

Color: RAL #####;

Sizes: mm X mm;

Accessories: Connecting sleeve; Fixed protective net;

Type: RITECH TAG #####.



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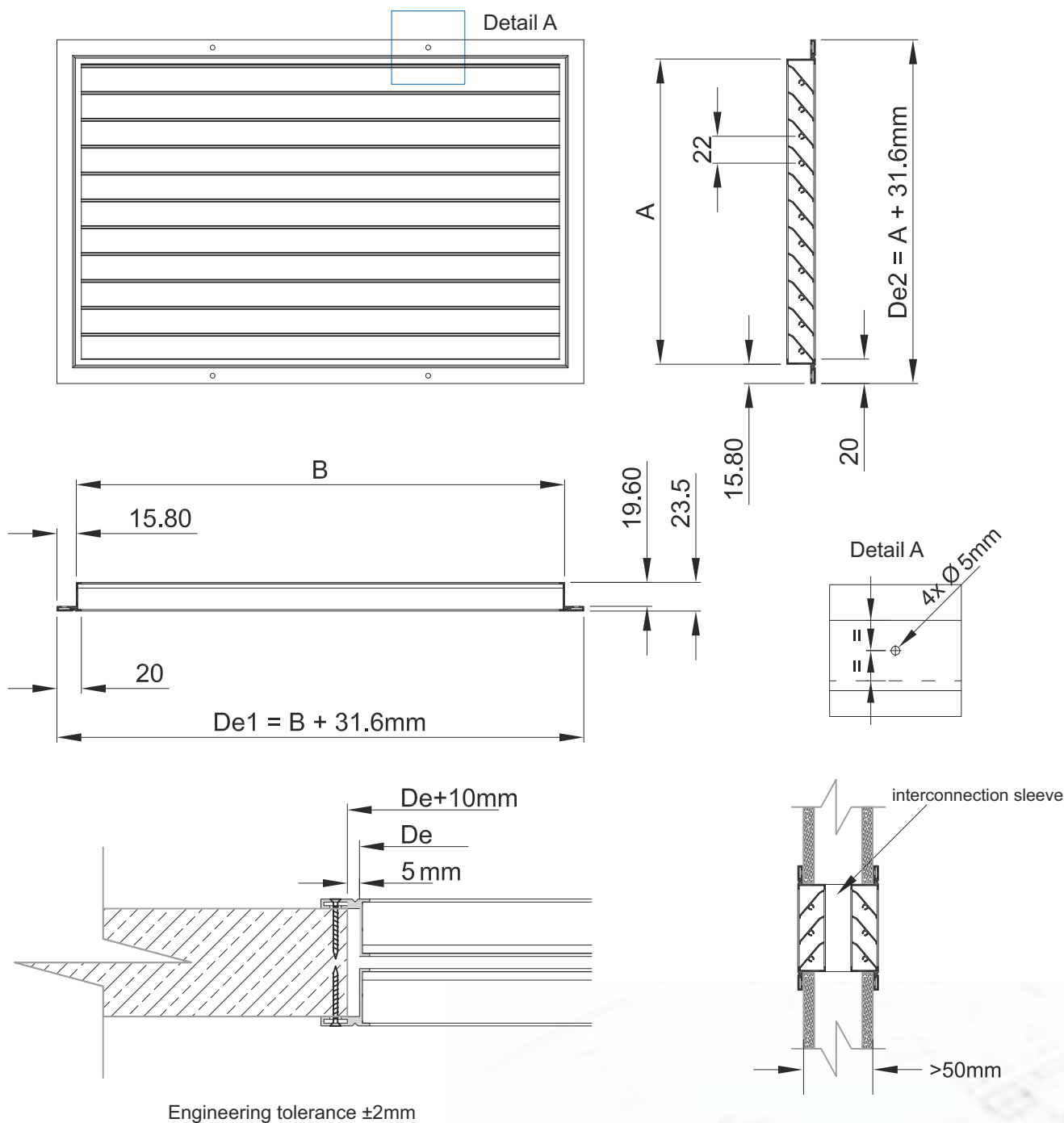
Performance table TAG

Product code	A	B	Con- nection area	Free area	Tube V = 2 [m/s]			Tube V = 3 [m/s]			Tube V = 4 [m/s]		
	[mm]	[mm]	[m ²]	[m ²]	Q [m ³ /h]	ΔP [Pa]	Grille V [m/s]	Q [m ³ /h]	ΔP [Pa]	Grille V [m/s]	Q [m ³ /h]	ΔP [Pa]	Grille V [m/s]
TAG010020	100	200	0,020	0,010	144	13,3	3,95	216	27,9	5,92	288	52,2	7,9
TAG010030	100	300	0,030	0,015	216	13,3	3,95	324	27,9	5,92	432	52,2	7,9
TAG010040	100	400	0,040	0,020	288	13,3	3,95	432	27,9	5,92	576	52,2	7,9
TAG010050	100	500	0,050	0,025	360	13,3	3,95	540	27,9	5,92	720	52,2	7,9
TAG010060	100	600	0,060	0,030	432	13,3	3,95	648	27,9	5,92	864	52,2	7,9
TAG010070	100	700	0,070	0,035	504	13,3	3,95	756	27,9	5,92	1.008	52,2	7,9
TAG010080	100	800	0,080	0,041	576	13,3	3,95	864	27,9	5,92	1.152	52,2	7,9
TAG010090	100	900	0,090	0,046	648	13,3	3,95	972	27,9	5,92	1.296	52,2	7,9
TAG015020	150	200	0,030	0,015	216	13,3	3,95	324	27,9	5,92	432	52,2	7,9
TAG015030	150	300	0,045	0,023	324	13,3	3,95	486	27,9	5,92	648	52,2	7,9
TAG015040	150	400	0,060	0,030	432	13,3	3,95	648	27,9	5,92	864	52,2	7,9
TAG015050	150	500	0,075	0,038	540	13,3	3,95	810	27,9	5,92	1.080	52,2	7,9
TAG015060	150	600	0,090	0,046	648	13,3	3,95	972	27,9	5,92	1.296	52,2	7,9
TAG015070	150	700	0,105	0,053	756	13,3	3,95	1.134	27,9	5,92	1.512	52,2	7,9
TAG015080	150	800	0,120	0,061	864	13,3	3,95	1.296	27,9	5,92	1.728	52,2	7,9
TAG015090	150	900	0,135	0,068	972	13,3	3,95	1.458	27,9	5,92	1.944	52,2	7,9
TAG020020	200	200	0,040	0,020	288	13,3	3,95	432	27,9	5,92	576	52,2	7,9
TAG020030	200	300	0,060	0,030	432	13,3	3,95	648	27,9	5,92	864	52,2	7,9
TAG020040	200	400	0,080	0,041	576	13,3	3,95	864	27,9	5,92	1.152	52,2	7,9
TAG020050	200	500	0,100	0,051	720	13,3	3,95	1.080	27,9	5,92	1.440	52,2	7,9
TAG020060	200	600	0,120	0,061	864	13,3	3,95	1.296	27,9	5,92	1.728	52,2	7,9
TAG020070	200	700	0,140	0,071	1.008	13,3	3,95	1.512	27,9	5,92	2.016	52,2	7,9
TAG020080	200	800	0,160	0,081	1.152	13,3	3,95	1.728	27,9	5,92	2.304	52,2	7,9
TAG020090	200	900	0,180	0,091	1.296	13,3	3,95	1.944	27,9	5,92	2.592	52,2	7,9
TAG025020	250	200	0,050	0,025	360	13,3	3,95	540	27,9	5,92	720	52,2	7,9
TAG025030	250	300	0,075	0,038	540	13,3	3,95	810	27,9	5,92	1.080	52,2	7,9
TAG025040	250	400	0,100	0,051	720	13,3	3,95	1.080	27,9	5,92	1.440	52,2	7,9
TAG025050	250	500	0,125	0,063	900	13,3	3,95	1.350	27,9	5,92	1.800	52,2	7,9
TAG025060	250	600	0,150	0,076	1.080	13,3	3,95	1.620	27,9	5,92	2.160	52,2	7,9
TAG025070	250	700	0,175	0,089	1.260	13,3	3,95	1.890	27,9	5,92	2.520	52,2	7,9
TAG025080	250	800	0,200	0,101	1.440	13,3	3,95	2.160	27,9	5,92	2.880	52,2	7,9
TAG025090	250	900	0,225	0,114	1.620	13,3	3,95	2.430	27,9	5,92	3.240	52,2	7,9
TAG030030	300	300	0,090	0,046	648	13,3	3,95	972	27,9	5,92	1.296	52,2	7,9
TAG030040	300	400	0,120	0,061	864	13,3	3,95	1.296	27,9	5,92	1.728	52,2	7,9
TAG030050	300	500	0,150	0,076	1.080	13,3	3,95	1.620	27,9	5,92	2.160	52,2	7,9
TAG030060	300	600	0,180	0,091	1.296	13,3	3,95	1.944	27,9	5,92	2.592	52,2	7,9
TAG030070	300	700	0,210	0,106	1.512	13,3	3,95	2.268	27,9	5,92	3.024	52,2	7,9
TAG030080	300	800	0,240	0,122	1.728	13,3	3,95	2.592	27,9	5,92	3.456	52,2	7,9
TAG030090	300	900	0,270	0,137	1.944	13,3	3,95	2.916	27,9	5,92	3.888	52,2	7,9
TAG040040	400	400	0,160	0,081	1.152	13,3	3,95	1.728	27,9	5,92	2.304	52,2	7,9
TAG040050	400	500	0,200	0,101	1.440	13,3	3,95	2.160	27,9	5,92	2.880	52,2	7,9
TAG040060	400	600	0,240	0,122	1.728	13,3	3,95	2.592	27,9	5,92	3.456	52,2	7,9
TAG040070	400	700	0,280	0,142	2.016	13,3	3,95	3.024	27,9	5,92	4.032	52,2	7,9
TAG040080	400	800	0,320	0,162	2.304	13,3	3,95	3.456	27,9	5,92	4.608	52,2	7,9
TAG040090	400	900	0,360	0,182	2.592	13,3	3,95	3.888	27,9	5,92	5.184	52,2	7,9

Legend:

Symbol	Description	M.U.
TAG	Transfer air grille	
A	Grille connection gauge - Width	[mm]
B	Grille connection gauge - Length	[mm]
Connection area	Grille surface for connection gauges (A x B)	[m ²]
Free area	Surface available for air circulation (connection area-blade area)	[m ²]
Q	Air flow	[m ³ /h]
ΔP	Pressure loss through grille	[Pa]
Grille V	Air velocity through grille, calculated based on Flow and Free Area	[m/s]
Tube V	Air velocity in the connection section	[m/s]

Sizes TAG



Engineering tolerance $\pm 2\text{mm}$

Example: Code TAG025040 represents:

Transfer air grille, with $A = 250\text{ mm}$, $B = 400\text{ mm}$

Accessories: Interior metallic sleeve (for thicknesses $> 50\text{ mm}$)

Fixed protection filter

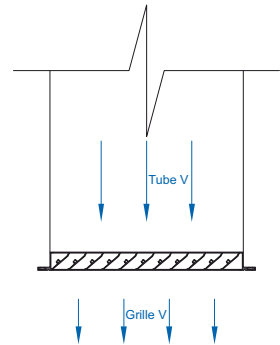
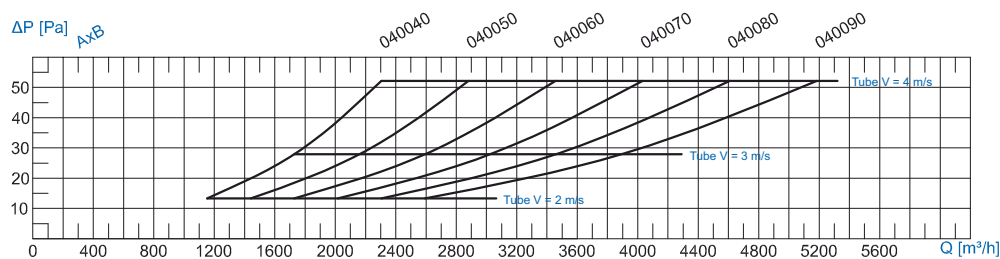
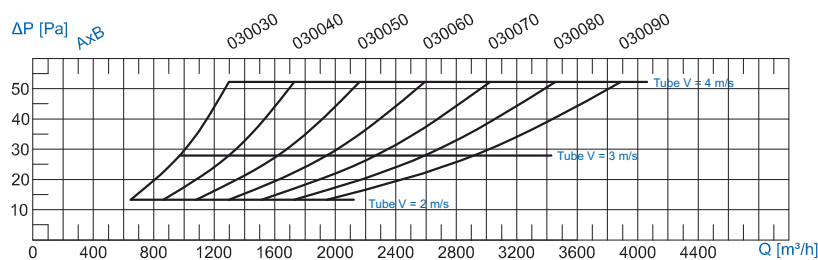
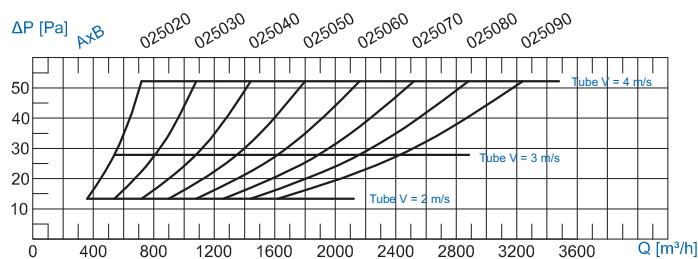
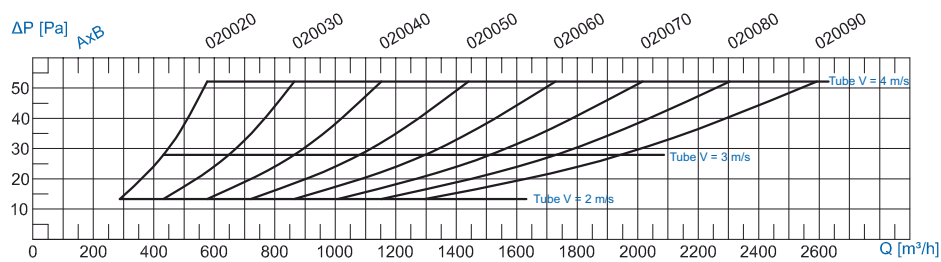
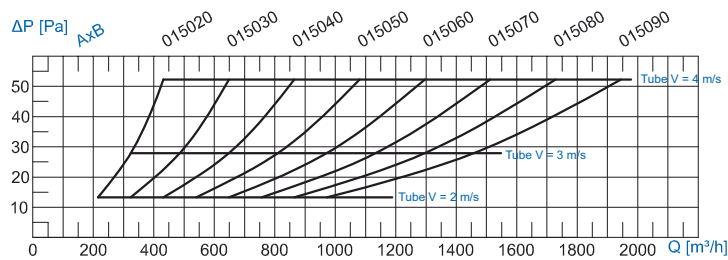
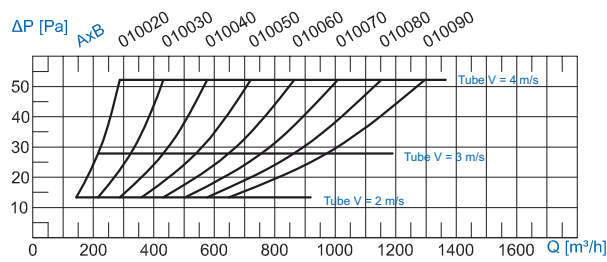
NOTE: Products may be ordered in customized sizes and configurations (colors, number and position of holes, fastening method, blade display, execution of hybrid product).



Design your environment

Pressure loss charts

TAG



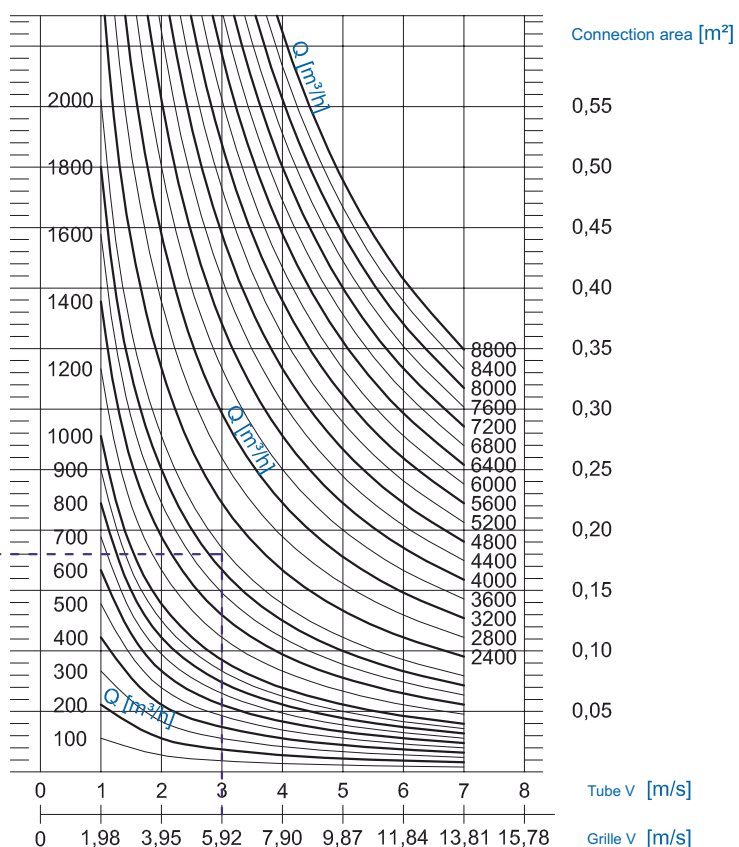
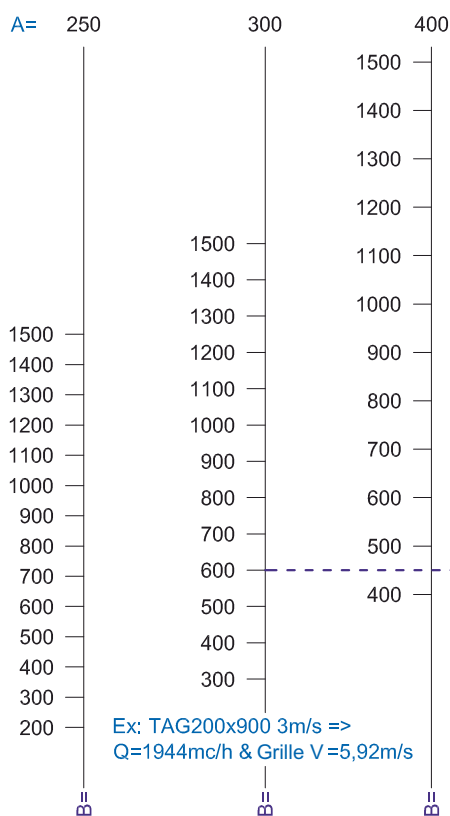
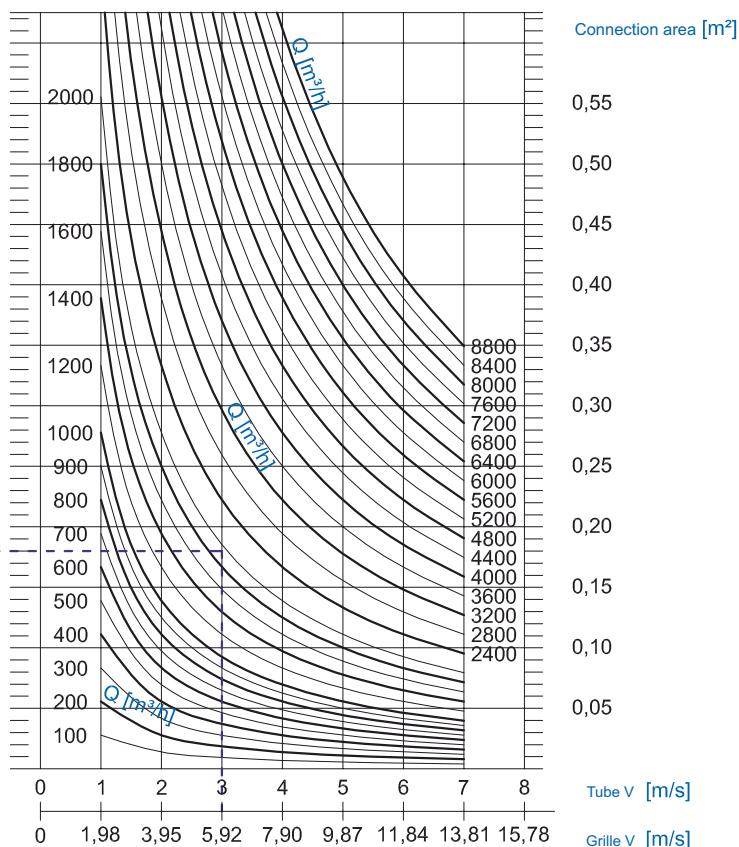
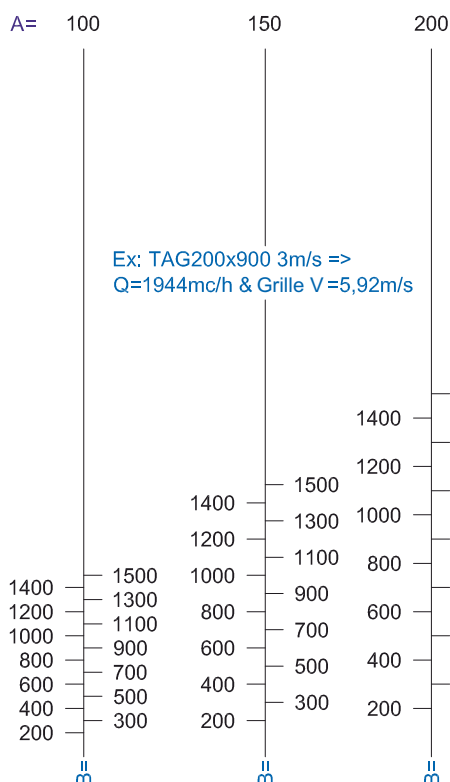
Ex: TAG300x600 Tube V=3m/s =>
Q=1944mc/h & ΔP =27.90Pa

TAG - Transfer air grilles

Design your environment



Selection chart TAG



Design your environment

Round duct grilles RSGR

Applications:

RSGR grilles have a semi-round section and they are destined both for supply and exhaust of air. They are installed directly on the rigid metallic section of the circular ducts.

Description:

RSGR-1 grilles are used mainly for air supply. They are provided with one row of frontal mobile blades, displayed horizontally, together with the row of adjustable vertical blades, in the rear side. Interior blades control the lateral diffusion angle of the air flow, while the front blades control both the air flow intensity and the up / down direction thereof.

RSGR-0 grilles may be used both for the supply and exhaust of air. They are provided with a single row of mobile blades, displayed horizontally, both the air flow intensity and the up / down direction thereof.

The blade inclination angle may be adjusted manually.

For improved adjustment of the air flowrate, we recommend the use of special (inclined) dampers – RSGR-DA.

Material:

Made of galvanized steel sheet, without welded joints.

Finish:

Standard color: natural, galvanized steel. They may be used without anti-corrosion protection, as they have the same surface with the finishing of metallic ducts. On request, they may be delivered in any RAL color, being painted with electrostatic coating and dried in polymerization oven, providing increased lifetime of the paint layer and its pigment.

Fastening:

Pre-punched Ø 5 mm holes, on long sides, for recessed-head anchor screw, painted in grille's color. The semi-round section of the grille allows a perfect adhesion to the metallic duct surface, disregarding its diameter.

Packaging:

Individual packaging, in polyethylene foil and delivered in cardboard boxes. Corners are protected with cardboard guards.

Technical specifications text-box, for price quotation requests:

Round duct grille, made of galvanized steel sheet, in natural color/ painted with electrostatic coating. The grille shall be provided with a single row of blades / adjustable blades, both on the length and on the width of the grille;

Sizes:mm Xmm;

Accessories: Inclined damper RSGR-DA;

Type: RITECH RSGR-# - ###-###.



Performance table RSGR

Flowrate [m³/h]	Sizes A x B [mm]	RSGR 425	RSGR 525	RSGR 625	RSGR 425	RSGR 525	RSGR 625	RSGR 425	RSGR 525	RSGR 625	RSGR 825
		x 75	x 75	x 75	x 125	x 125	x 125	x 225	x 225	x 225	x 225
	Free area [m²]	0,013	0,016	0,019	0,025	0,031	0,037	0,049	0,061	0,073	0,097
200	X [m]	5,1	4,6								
	N _z [dB(A)]	24,0	20,0								
	ΔP [Pa]	12,0	8,0								
250	X [m]	6,4	5,7	5,3							
	N _z [dB(A)]	29,0	25,0	22,0							
	ΔP [Pa]	19,0	12,0	9,0							
300	X [m]	7,6	6,9	6,3	5,5						
	N _z [dB(A)]	33,0	29,0	26,0	21,0						
	ΔP [Pa]	27,0	18,0	13,0	7,0						
350	X [m]	8,9	8,0	7,4	6,4	5,8					
	N _z [dB(A)]	37,0	33,0	30,0	24,0	20,0					
	ΔP [Pa]	37,0	24,0	17,0	10,0	6,0					
400	X [m]	10,2	9,2	8,4	7,3	6,6	6,0				
	N _z [dB(A)]	40,0	36,0	33,0	28,0	23,0	20,0				
	ΔP [Pa]	48,0	32,0	23,0	13,0	8,0	6,0				
450	X [m]	11,5	10,3	9,5	8,3	7,4	6,8				
	N _z [dB(A)]	43,0	39,0	36,0	31,0	26,0	23,0				
	ΔP [Pa]	61,0	40,0	29,0	17,0	11,0	8,0				
500	X [m]		11,5	10,5	9,2	8,2	7,6	6,6			
	N _z [dB(A)]		42,0	38,0	33,0	29,0	25,0	20,0			
	ΔP [Pa]		50,0	35,0	20,0	13,0	9,0	5,0			
600	X [m]			12,6	11,0	9,9	9,1	7,9	7,1		
	N _z [dB(A)]			43,0	38,0	33,0	30,0	24,0	20,0		
	ΔP [Pa]			51,0	29,0	19,0	13,0	8,0	5,0		
700	X [m]				12,9	11,5	10,6	9,2	8,2	7,5	
	N _z [dB(A)]				41,0	37,0	34,0	28,0	24,0	20,0	
	ΔP [Pa]				40,0	26,0	18,0	10,0	7,0	5,0	
800	X [m]				14,7	13,2	12,1	10,5	9,4	8,6	
	N _z [dB(A)]				45,0	40,0	37,0	31,0	27,0	24,0	
	ΔP [Pa]				52,0	34,0	24,0	14,0	9,0	6,0	
900	X [m]					14,8	13,6	11,8	10,6	9,7	8,4
	N _z [dB(A)]					43,0	40,0	34,0	30,0	26,0	21,0
	ΔP [Pa]					43,0	30,0	17,0	11,0		
1.000	X [m]						15,1	13,1	11,8	10,8	9,3
	N _z [dB(A)]						42,0	37,0	33,0	29,0	23,0
	ΔP [Pa]						37,0	21,0	14,0	10,0	5,0
1.200	X [m]							15,7	14,1	12,9	11,2
	N _z [dB(A)]							41,0	37,0	33,0	28,0
	ΔP [Pa]							31,0	20,0	14,0	
1.400	X [m]							18,4	16,5	15,1	13,1
	N _z [dB(A)]							45,0	41,0	37,0	32,0
	ΔP [Pa]							42,0	27,0	19,0	11,0

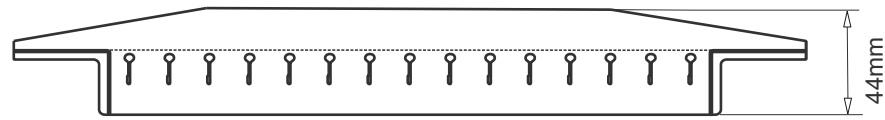
Legend:

Symbol	Description	M.U.
RSGR	Round duct grille	
A	Grille connection gauge - Length	[mm]
B	Grille connection gauge - Width	[mm]
Free area	Surface available for air circulation (connection area-blade area)	[m²]
ΔP	Pressure loss through grille	[Pa]
N_z	Noise level (sound pressure)	[dB(A)]
X	Jet length	[m]



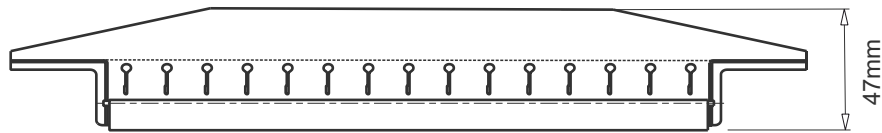
Design your environment

Technical data RSGR



RSGR-0

Single deflection

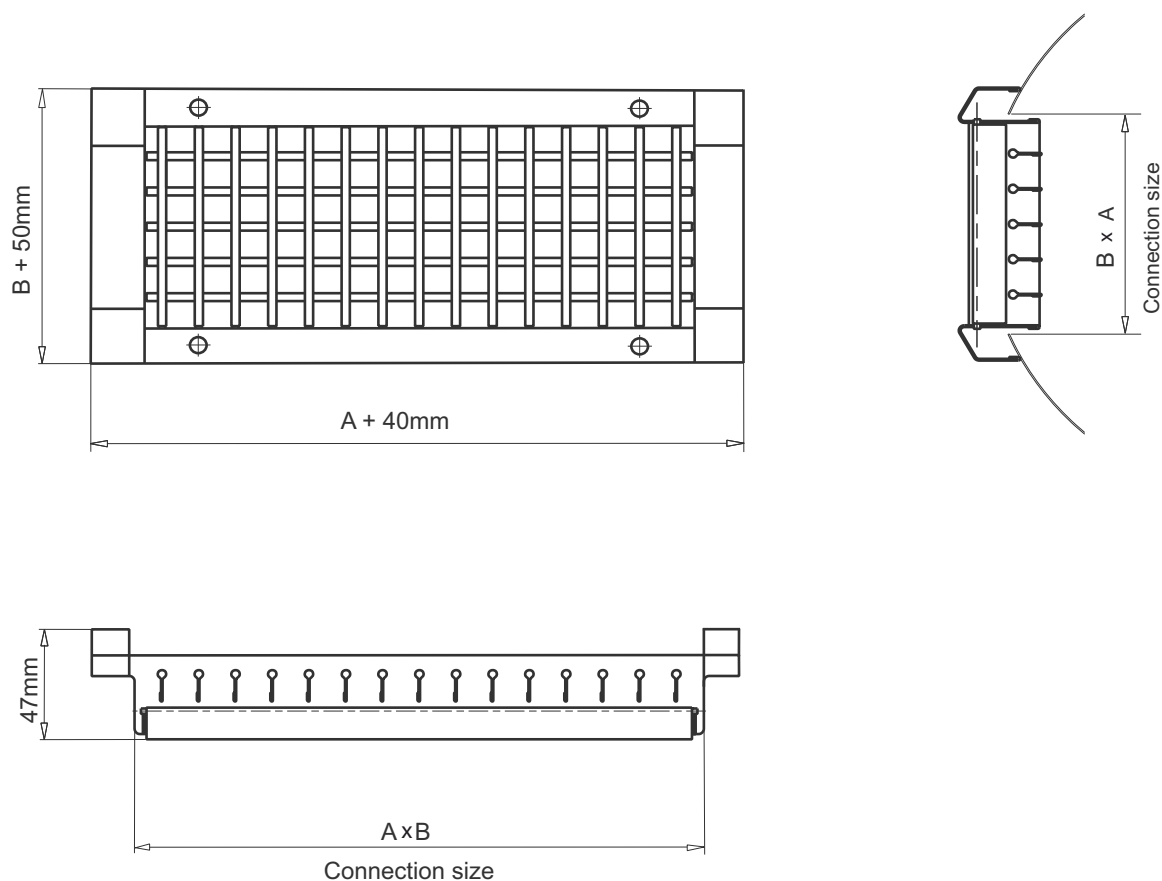


RSGR-1

Double deflection

Size A x B	Duct diameter		Surface	Weight RSGR-0	Weight RSGR-1
	min	max			
[mm]	[mm]	[mm]	[m ²]	[kg]	[kg]
425 x 75	160	400	0,032	1,1	1,4
525 x 75	160	400	0,039	1,3	1,7
625 x 75	160	400	0,047	1,5	1,9
425 x 125	250	900	0,053	1,5	1,8
525 x 125	250	900	0,066	1,7	2,0
625 x 125	250	900	0,078	2,1	2,4
425 x 225	500	1.400	0,096	2,7	3,0
525 x 225	500	1.400	0,118	3,1	3,4
625 x 225	500	1.400	0,141	3,4	3,7
825 x 225	500	1.400	0,186	4,8	5,1

Sizes RSGR



Engineering tolerance $\pm 2\text{mm}$

Example: Code RSGR-1-525-75 represents:

Round duct grille with double deflection, $A = 525\text{ mm}$, $B = 75\text{ mm}$

Accessories: Inclined damper RSGR-DA



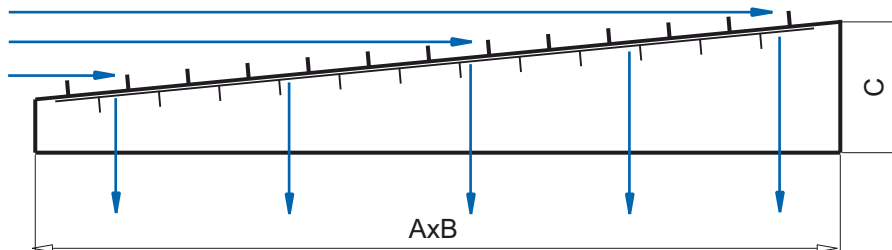
Design your environment

Inclined damper RSGR-DA

The inclined damper RSGR-DA is installed as additional accessory on the round duct grilles. It is provided with fixing clamps, directly on the corresponding grille.

The RSGR-DA damper is used for additional control of air flowrate and velocity through grille, as well as an obturator. The angle of inclination to the grille equalizes the air flow on its entire surface. Adjustment of air flowrate is achieved by manual adjustment of position of the sliding elements.

The RSGR-DA damper is made of galvanized steel sheet.



Type	A	B	C
	[mm]	[mm]	[mm]
RSGR-DA-425-75	425	75	61
RSGR-DA-525-75	525	75	70
RSGR-DA-625-75	625	75	78
RSGR-DA-425-125	425	125	61
RSGR-DA-525-125	525	125	70
RSGR-DA-425-225	425	225	61
RSGR-DA-525-225	525	225	70
RSGR-DA-625-225	625	225	78
RSGR-DA-825-225	825	225	78



Design your environment